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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/840,029	04/24/2001	Laurence W. Hedlund	. 1579-561	. 1579-561 4264	
23117 75	90 01/12/2005		EXAMINER		
NIXON & VANDERHYE, PC			ROBINSON, D.	ROBINSON, DANIEL LEON	
8TH FLOOR			ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22201-4714			3742		

DATE MAILED: 01/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/840,029	HEDLUND ET AL.			
Office Action Summary	Examiner	Art Unit			
	Daniel I. Robinson	3742			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a reply be ti n. a reply within the statutory minimum of thirty (30) da priod will apply and will expire SIX (6) MONTHS fron tatute, cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 6	97 April 2004.				
2a) ☐ This action is FINAL . 2b) ☒	This action is non-final.				
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D. 11, 4	.53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-36 is/are pending in the application.					
4a) Of the above claim(s) 6-36 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1 is/are rejected. 7) ☑ Claim(s) 2-5 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers		•			
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	. □	(DTO 442)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/Statement(s)) Paper No(s)/Mail Date	·	y (PTO-413) Date Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office	ce Action Summary P	art of Paper No./Mail Date 20040720			

Art Unit: 3742

Election/Restrictions

Applicant's election with traverse of Group I, claims 1-5, in the reply filed on 4-7-2004 is acknowledged. The traversal is on the ground(s) that at least each of claims 1, 7 and 15 of Groups 1, 11 and 111, respectively, language is present which unequivocally defines the derivation or generation of a signal in response to optically detected movements indicative of a cardiac phase (e.g., cardiac inactivity and activity).

This is not found persuasive because the method claims cited are directed to different inventions i.e. a method of cardiac phase detection or a method of mri microscopy, the method claims cannot be used together since they are different functions. If the method claims are considered combinations they must claim the particulars of any subcombination this is not the case as claim 15 recites an optical fiber not found in the other independent claims and claim 6 recites a derived cardiac signal not found in claim 15 also claim 6 does not recite a derived signal (other than that found in line 6 that lacks antecedent basis).

The requirement is still deemed proper and is therefore made FINAL.

Newly submitted claims 31-36 directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: Newly submitted independent claim 31 recites "optically detecting internal anatomic physical movement" not found in elected claim 1.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 31-36 withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Negus et al.(U.S.Pat.6,595,987). Negus discloses a heart synchronized pulsed laser system that shows optical detection of cardiac movement and the generation of a trigger signal indicative of the cardiac phase.

Response to Arguments

Applicant's arguments filed 10-21-2004 have been fully considered but they are not persuasive. Applicant's argument that detecting the electrical activity of a moving muscle is not the same as detecting the moving muscle itself is not persuasive.

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Allowable Subject Matter

Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Foltz, Turcott, Richards, Riederer, Johnson, Blakeley and Sontag are cited to show

structure similar to the claimed invention.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Daniel 1. Robinson whose telephone number is 703 306-9043.

The examiner can normally be reached on M-F 5:30am-2:30pm.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

DANIEL ROBINSON

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PRIMARY EXAMIN

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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